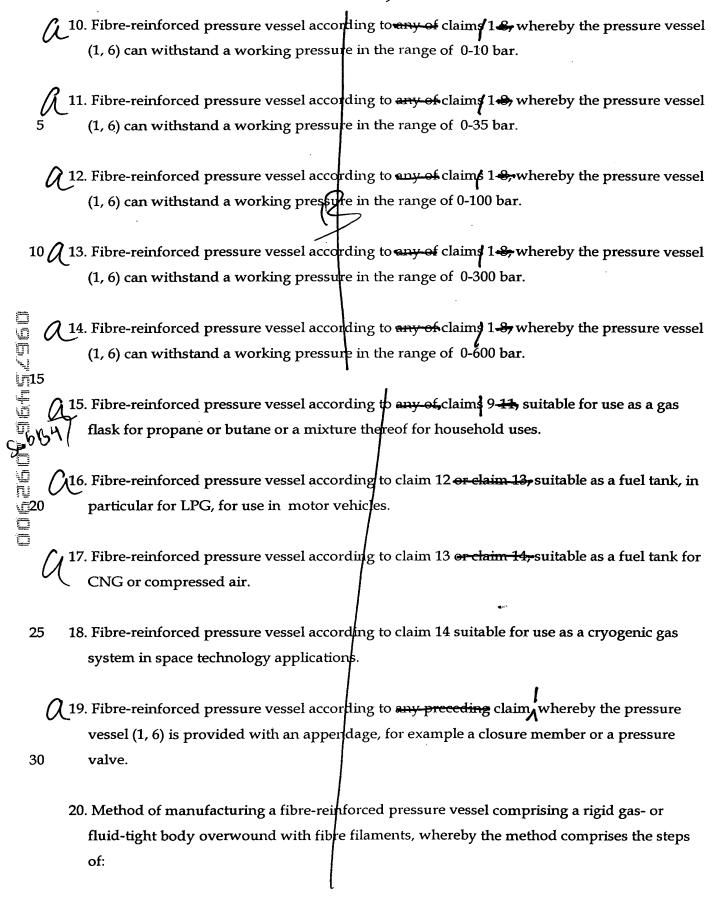
- 1. Fibre-reinforced pressure vessel (1, 6) comprising a rigid gas- or fluid-tight body (2, 7, 13, 19) overwound with fibre filaments (3, 10, 11, 18), whereby at least a number of fibre filaments (3, 10, 11, 18) can move freely with respect to one another and the fibre filaments (3, 10, 11, 18) are wound such that when the pressure vessel is under internal pressure, the fibre filaments (3, 10, 11, 18) are loaded exactly in their longitudinal direction.
 - 2. Fibre-reinforced pressure vessel (1, 6) according to claim 1, whereby all wound fibre fil aments (3, 10, 11, 18) can move freely with respect to one another. 10
- 3. Fibre-reinforced pressure vessel according to claim 1 or claim 2, whereby the pressure vessel (1) has an isotensoid shape.
- 15 (4. Fibre-reinforced pressure vessel according to claim 1 or claim 2, whereby the pressure vessel (6) has a cylindrical shape.
 - ng claim, whereby the pressure 5. Fibre-reinforced pressure vessel according to any precess vessel (1, 6) is provided with a coating (20)
 - 6. Fibre-reinforced pressure vessel according to claim 5, whereby the coating (20) comprises synthetic rubber.
 - (17. Fibre-reinforced pressure vessel according to any of claims 14, whereby the rigid body (2, 7, 13, 19) is made of high-density polyethene (HDPE) and the fibre filaments (3, 10, 11, 18) are 25 carbon fibres.
 - 8. Fibre-reinforced pressure vessel according to any of elaims 1 6 whereby the rigid body (2, 7, 13, 19) is made of high-density polyethene (HDPE) and the fibre filaments (3, 10, 11, 18) are 30 glass fibres.
 - Fibre-reinforced pressure vessel according to any of claims 1-8, whereby the pressure vessel (1, 6) can withstand a working pressylve in the range of 0-5 bar.



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- a) providing a rigid gas- or fluid-tight body, fibre filaments and a winding app aratus;
- b) overwinding the rigid body such that at least a number of fibre filaments can move freely with respect to one another and the fibre filaments are wound such that when the pressure vessel is under internal pressure vessel the fibre filaments are loaded exactly in their longitudinal direction;

whereby no matrix material (for example, resin) is provided such that the fibre filaments would be incorporated in a matrix for that section of the pressure vessel in which the fibre filaments can move freely with respect to one another.

- 21.Method of manufacturing according to claim 20, whereby no matrix material at all is provided.
- 22. Mould for use in manufacturing a fibre-reinforced pressure vessel according to claim 20 exclaim 21.

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